# Learning Objectives: ANSI/ASNT CP-105- 2016 Section 2,3, 5 & 6

Upon completion of this unit, the student will be able to define and understand the following:

* Review of Units 1 & 2
  + ALARA
  + Radiation Intensity units
* Time, Distance & Shielding…
* More Science: (2.0 Fundamental Properties of Matter)
  + Isotopes
  + Stable vs. Unstable atoms
  + Radioactive half-life
  + Radioactive Decay
  + Specific Activity
  + Fission
  + Fusion
* More Math:
  + Inverse Square Law
  + Calculating Half-Life and Activity of Gamma Sources

**Learning Activities:**

* + Lecture and discussion

**Learning Resources:**

* + Units of measurement handout
  + Glossary

**Evaluation:**

* + Inverse SQ. Law Worksheet #1
  + Article Review #4